CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-9, 11-33 and 35-37.
- After this Amendment: Claims 1-9, 11-33 and 35-37.

Non-Elected, Canceled, or Withdrawn claims: None

Amended claims: 1-9, 11-14 and 27.

New claims: None

Claims:



1. (Currently Amended) A computer-readable storage medium having a program module with computer-executable instructions that, when

executed by a computer, performs a method comprising:

obtaining an omnibus signal comprising multiple input signals received

from multiple different sources and mixed together, wherein when the omnibus

signal is obtained it is unknown whether at least one of the input signals includes

an embedded signal therein;

testing the omnibus signal comprising the multiple input signals with a

detector which views the multiple input signals of the omnibus signal as a single

continuous stream which is to be examined for the presence of an embedded

signal, and determining that one of the multiple input signals of the omnibus

signal includes an embedded signal therein; and

performing a tree-search of a tree-like organizational structure which

represents the multiple input signals of the omnibus signal to locate which of the

multiple input signals has the embedded signal therein.

2. (Currently Amended) A computer-readable storage medium as

recited in claim 1, wherein the method further comprises locating one of the

multiple input signals that has an embedded signal therein.

3. (Currently Amended) A <u>computer-readable storage</u> medium as

recited in claim 1, wherein the multiple signals are passed through and

consumed by one or more computer-executable program modules, the method

further comprises locating one of the multiple input signals that has an

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embedded signal therein, the locating occurring within about thirty seconds or less of consumption of the located signal.

4. (Currently Amended) A <u>computer-readable storage</u> medium as recited in claim 1, wherein the method further comprises:

locating one of the multiple input signals that has an embedded signal therein;

indicating the located signal.

5. (Currently Amended) A <u>computer-readable storage</u> medium as recited in claim 1, wherein the method further comprises:

locating one of the multiple input signals that has an embedded signal therein;

generating a notification based upon the locating.

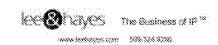
6. (Currently Amended) A <u>computer-readable storage</u> medium as recited in claim 1, wherein the method further comprises:

locating one of the multiple input signals that has an embedded signal therein;

impairing the located signal.

7. (Currently Amended) A <u>computer-readable storage</u> medium as recited in claim 1, wherein the method further comprises:

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locating one of the multiple input signals that has an embedded signal

therein;

muting the located signal when that signal is an audio signal.

8. (Currently Amended) A <u>computer-readable storage</u> medium as

recited in claim 1, wherein the method further comprises:

locating one of the multiple input signals that has an embedded signal

therein;

impairing one or more of the multiple input signals during the locating;

when the one of the multiple input signals with an embedded signal

therein is located by the locating, impairing only the located signal.

9. (Currently Amended) A <u>computer-readable storage</u> medium as

recited in claim 1, wherein each of the multiple input signals of the omnibus

signal may potentially have an embedded signal therein, the multiple signals

being mixed together into the omnibus signal and in a tree-like organizational

structure with each of the multiple input signals is a "leaf" in the tree-like

organizational structure and each "leaf" represents one of the multiple input

signals that is unmixed with other signals.

10. (Canceled)

11. (Currently Amended) A <u>computer-readable storage</u> medium as

recited in claim 1, wherein performing the tree search further comprises

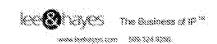
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"walking" up the tree-like organizational structure and testing the signal at each "branch" or "leaf" encountered in the walk up the tree-like organizational structure to determine if the signal at that branch or leaf includes an embedded signal therein.

- **12. (Currently Amended)** A <u>computer-readable storage</u> medium as recited in claim 1, wherein the type of the one or more the multiple input signals is selected from a group consisting of image, audio, video, multimedia, software, metadata, and data.
- **13.** (Currently Amended) An operating system comprising a computer-readable storage medium as recited in claim 1.

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14. (Currently Amended) A computing device comprising:

an input device for receiving one or more input signals; and

a medium as recited in claim 1

<u>a program module with computer-executable instructions that, when</u>

executed by a computer, performs a method comprising:

obtaining an omnibus signal comprising multiple input signals received

from multiple different sources and mixed together, wherein when the omnibus

signal is obtained it is unknown whether at least one of the input signals includes

an embedded signal therein;

testing the omnibus signal comprising the multiple input signals with a

detector which views the multiple input signals of the omnibus signal as a single

continuous stream which is to be examined for the presence of an embedded

signal, and determining that one of the multiple input signals of the omnibus

signal includes an embedded signal therein; and

performing a tree-search of a tree-like organizational structure which

represents the multiple input signals of the omnibus signal to locate which of the

multiple input signals has the embedded signal therein.

15. (**Previously Presented**) A method for dynamic detecting of robust

embedded-signals in a multiple-signal environment, the method comprising:

obtaining an omnibus signal comprising multiple input signals received

from multiple different sources and mixed together, wherein when the omnibus

signal is obtained it is unknown whether at least one of the input signals includes

an embedded signal therein;

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testing the omnibus signal comprising the multiple input steams with a detector which views the multiple input streams of the omnibus signal as a single continuous stream which is to be examined for the presence of an embedded signal, to determine if at least one of the multiple input steams of the omnibus signal includes an embedded signal therein,

wherein each of the multiple input signals of the omnibus signal may potentially have an embedded signal therein, the multiple signals being mixed together into the omnibus signal and in a tree-like organizational structure with each of the multiple input signals is a "leaf" in the tree-like organizational structure and each "leaf" represents one of the multiple input signals that is unmixed with other signals.

- **16. (Original)** A method as recited in claim 15 further comprises locating one of the multiple input signals that has an embedded signal therein.
- 17. (Original) A method as recited in claim 15, wherein the multiple signals are passed through and consumed, the method further comprising locating one of the multiple input signals that has an embedded signal therein, the locating occurring within about thirty seconds or less of consumption of the located signal.
 - **18.** (Original) A method as recited in claim 15 further comprising:

locating one of the multiple input signals that has an embedded signal therein;

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indicating the located signal.

19. (Original) A method as recited in claim 15 further comprising:

locating one of the multiple input signals that has an embedded signal therein;

generating a notification based upon the locating.

20. (Original) A method as recited in claim 15 further comprising:

locating one of the multiple input signals that has an embedded signal therein;

impairing the located signal.

21. (Original) A method as recited in claim 15 further comprising:

locating one of the multiple input signals that has an embedded signal therein;

muting the located signal when that signal is an audio signal.

22. (Original) A method as recited in claim 15 further comprising:

locating one of the multiple input signals that has an embedded signal therein;

impairing one or more of the multiple input signals during the locating;

when the one of the multiple input signals with an embedded signal therein is located by the locating, impairing only the located signal.

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23. (Original) A method as recited in claim 15, if the testing finds an embedded signal in the omnibus signal, then further comprising performing a tree-search of the tree-like organizational structure to locate which one of the multiple input signals has an embedded signal therein.

24. (**Original**) A method as recited in claim 15, if the testing finds an

embedded signal in the omnibus signal, then the method further comprises

progressively "walking" up the tree-like organizational structure and testing the

signal at each "branch" or "leaf" encountered in the walk up the tree-like

organizational structure to determine if the signal at that branch or leaf includes

an embedded signal therein.

25. (**Original**) A method as recited in claim 15, wherein the type of the

one or more the multiple input signals is selected from a group consisting of

image, audio, video, multimedia, software, metadata, and data.

26. (Original) A computer comprising one or more computer-readable

media having computer-executable instructions that, when executed by the

computer, perform the method as recited in claim 15.

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27. (Currently Amended) An embedded-signal detection system

comprising:

a memory;

a processor; and

a single embedded-signal detector configured to perform a method, the

method comprising:

receive an omnibus mixed signal which comprises multiple input

signals that have been received from multiple different sources and mixed

together in a tree-like organizational structure with each of the multiple

input signals being a "leaf" in the tree-like organizational structure and

each "leaf" representing one of the multiple input signals that is unmixed

with other signals, wherein when the omnibus signal is received by the

detector it is unknown whether at least one of the input signals comprises

an embedded signal therein[[,]];

concurrently test the multiple input signals of the omnibus signal as

a single continuous stream which is examined for the presence of an

embedded signal to determine if at least one of the multiple input signals

of the omnibus mixed signal comprises an embedded signal therein[[,]];

and

perform a tree-search of the tree-like organizational structure which

represents the multiple input signals of the omnibus signal to locate which

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of the multiple input signals has the embedded signal therein.

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28. (**Original**) A system as recited in claim 27, wherein the detector being further configured to locate one of the multiple input signals that has an

embedded signal therein.

29. (Original) A system as recited in claim 27, wherein the multiple

signals are passed through to a signal consumer, the detector being further

configured to locate one of the multiple input signals that has an embedded

signal therein, the locating occurring within about thirty seconds or less of

consumption of the located signal.

30. (Original) A system as recited in claim 27, wherein the detector

being further configured to locate one of the multiple input signals that has an

embedded signal therein and indicate the located signal.

31. (Original) A system as recited in claim 27, wherein the detector

being further configured to locate one of the multiple input signals that has an

embedded signal therein and generate a notification based upon the locating.

32. (Original) A system as recited in claim 27, wherein the detector

being further configured to locate one of the multiple input signals that has an

embedded signal therein and impair the located signal.

33. (Original) A system as recited in claim 27, wherein the detector

being further configured to locate one of the multiple input signals that has an

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embedded signal therein, impair one or more of the multiple input signals while it locates the one signal with an embedded signal therein, and when the one of the multiple input signals with an embedded signal therein is located, impair only the located signal.

34. (Canceled)

35. (Original) A system as recited in claim 27, wherein the detector is

further configured to perform a tree-search of the tree-like organizational

structure, if the detector finds an embedded signal in the omnibus signal, to

locate which one of the multiple input signals has an embedded signal therein.

36. (Original) A system as recited in claim 27, wherein the detector is

further configured to progressively "walk" up the tree-like organizational

structure if the detector finds an embedded signal in the omnibus signal and is

further configured to test the signal at each "branch" or "leaf" encountered in the

walk up the tree-like organizational structure to determine if the signal at that

branch or leaf includes an embedded signal therein.

37. (Original) A system as recited in claim 27, wherein the type of the

one or more the multiple input signals is selected from a group consisting of

image, audio, video, multimedia, software, metadata, and data.

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